PROJECT CHARGE: 2106

PROJECT TITLE: APPLIED TECHNOLOGY

PROJECT LEADER: J. L. Banyasz

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AMMONIATION/HEAT TREATMENT OF TOBACCO

In collaboration with Blend Development, the Product Evaluation Division and Flavor Development, we have been attempting to establish a quantitative basis for subjective response to ammonia and heat treated tobaccos. This involved the creation of a "Burley Questionnaire" and the assembly of a volunteer smoking panel. Results to date have established the response to burley and indicate that the procedure does not resolve different stalk positions of burley.

Work is now in progress to establish the responses to bright and oriental tobaccos with respect to the burley characteristics. If these are suitably resolved from burley, then the procedure will be applied to measure the "movement" of treated bright samples toward burley.

CIGARETTE PAPER - COMBUSTION PROPERTIES

The thermal conductivity tester has been completed and several types of cigarette paper have been examined. The samples included standard production paper, high purity α cellulose and nonporous, low sidestream papers with high inorganic contents. The preliminary data indicate that the thermal conductivities of these materials range from 1.4 to 2 x 10^{-3} Watts/cm°C. To date, it appears that additives have relatively little influence on the thermal conductivity of paper. Thus heat conduction appears to play a minor role in the differing burn characteristics of these papers.

LASER APPLICATIONS

The front optics in the Apollo laser were found to have deteriorated resulting in poor mode. Consequently, repairs were effected. A demonstration of cigarette rod slitting was given for QA and Engineering. Further work is planned in this area now that the laser is functioning properly.

ASSISTANCE TO OTHER GROUPS

Assistance was provided to Product Development in overhauling the Coherent 525 laser.

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